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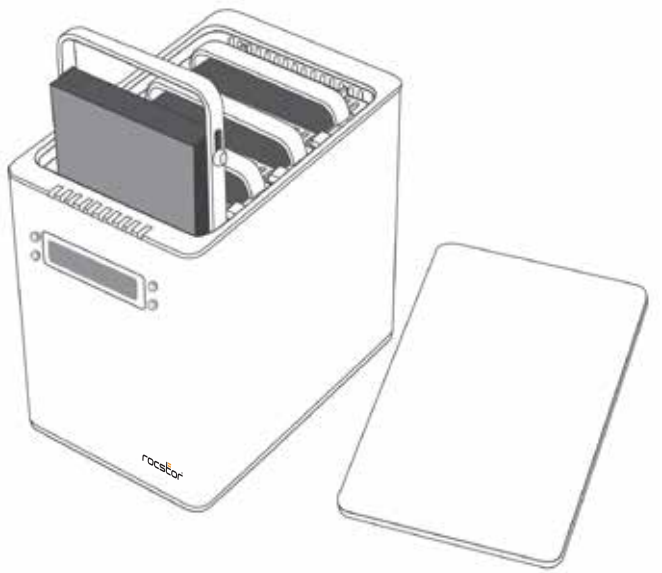
QUICK START GUIDE

Arcticroc 4-bay RAID System with LCM Panel



Universal

Mac

Time Machine Compatible

Windows® 2000 to Windows 8 Compatible

USB 2.0 HI-SPEED

USB 3.0 SUPER-SPEED

3 Gbits/sec

FireWire

FC

CE

RoHS

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This Arcticroc 4-bay RAID System with LCM panel and RAID MASTER (Graphic User Interface) provides massive storage capacity and advanced RAID configuration options with RAID 0, RAID 1, Span, Clone, RAID 5, RAID 1+1, and optional HotSpare in a desktop storage device.

The installation instructions in this manual apply to the following models:

• SATA-eSATA/USB 2.0/FireWire 400/FireWire 800 combo

Package Content

Please check all Package Contents when opening it.

SATA-eSATA/USB 2.0 Combo/FireWire 400/FireWire 800 Combo

4-bay RAID

FireWire 400

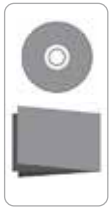
FireWire 800

External Power Supply

4 spare HDD screws provided on back part of cover lid

4 handles

HDD screws x 16

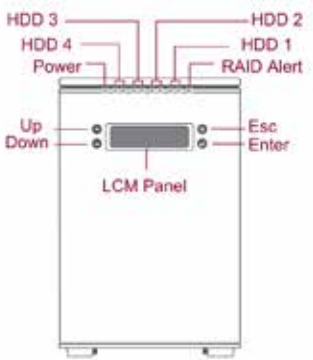


CD and Quick Installation Guide

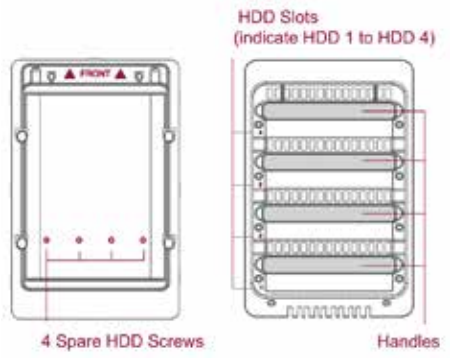
USB Type B to A Cable

eSATA cable

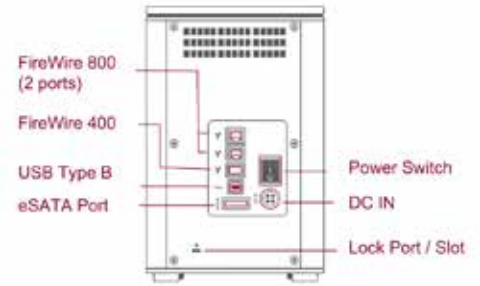
Front View



Top View



Rear View



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Installing The RAID System

To assemble the RAID System, please follow the steps listed in the instructions below:

1 Place the RAID System with its Front View facing you. Push the lid in the direction away from you, front to back, using your thumbs.

2 Take out the handles from the RAID System itself and locate the HDD screws in the packaging box

3 Position the handle to the HDD end, which is facing away from the interface connectors, and align it with the screw hole openings.

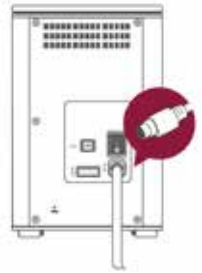
4 Fasten the handle onto the HDD by inserting and tightening the screws on both ends of the handle.

5 Finally, test slide the handle to make sure that the holes glide smoothly on the screw guides. Repeat the same procedures for the rest of HDDs.

6 Fasten the handle onto the HDD by inserting and lightening the screws on both ends of the handle.

7 Place RAID System with its Front View facing you and the top lid on. Push the lid firmly downward and toward you, back to front.

8 Connect the AC/DC power adapter.



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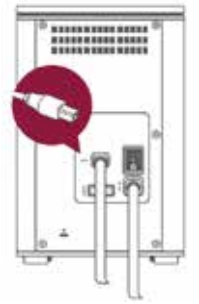
9 Insert both ends of the USB 2.0 cable (or eSATA, FireWire 400, FireWire 800) into the corresponding port of the RAID system and the host.



10 Turn the power switch to the “on” position.

11 When connected, the Power LED light will become steadily green, and the HDD LED lights will become white and blink about 15 seconds.

12 You are now ready to begin using your RAID system!

RAID Configuration

With LCM operation

The LCM on the SMART RAID System will display basic information for the inserted HDDs, RAID System itself, and basic RAID function operations. Please use the LCM buttons to operate.

LCM Basic Menu

1. Quick Setup: Enables general basic set up functions.

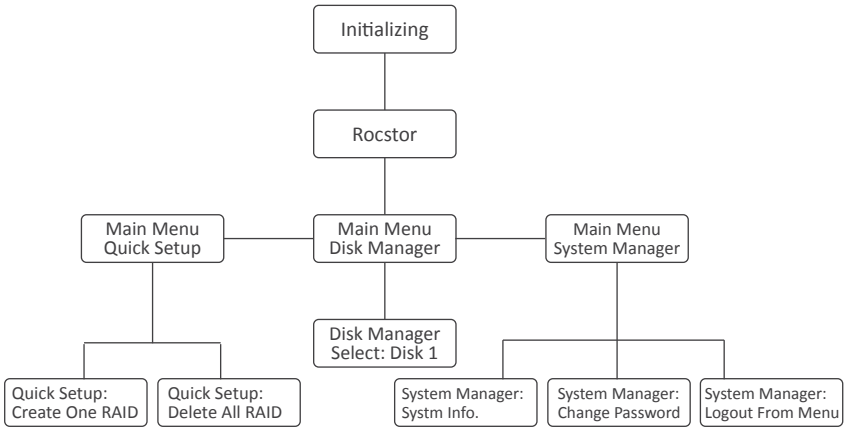
• Create One RAID: To assign and create the RAID System’s inserted HDDs into a preferred RAID Mode. Also to set up a RAID Mode Password for this particular RAID mode’s HDDs.
• Delete All RAID: To delete the current RAID mode setup in the RAID System’s inserted HDDs.

2. Disk Manager: Provides basic information of specified HDD.

• Select Disk: To retrieve detailed information regarding the selected disk such as model, serial number, firmware version, total capacity, unused capacity available, and disk status.

3. System Manager: Supplies basic RAID System information, password and access capabilities.

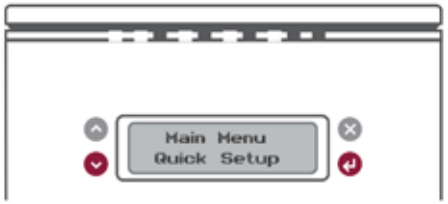
• System Info: To retrieve detailed information regarding the RAID System such as firmware version and control number.
• Change Password: To set up or change the password for access to the LCM operations only. This is not the same as the RAID Mode password set up via the RAID MASTER and LCM (Create One RAID).
• Logout From Menu: To esc or exit from the menu.



For more information about the LCM Process Tree, please go to the user manual in the provided CD.

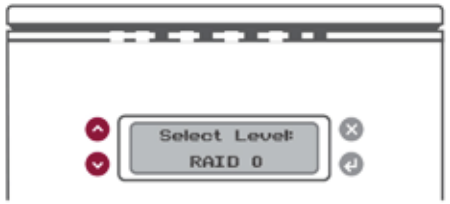
If you wish to assign and create the RAID using the LCM only, please follow the steps listed in the instructions provided below:

1. Turn 'On' the RAID System. Under Main Menu, press Down Button (⌄) to select 'Quick Setup' and press Enter (↵)

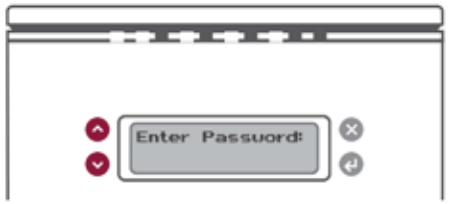


2. Select 'Create One RAID' and press Enter ( ).

3. Use the Up (⌃) and Down (⌄) Buttons to select which RAID Mode to use.



4. Enter the 'password'.

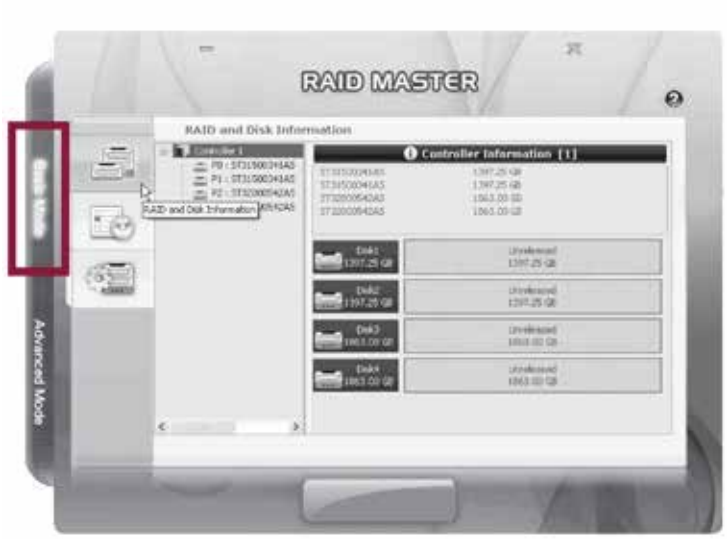


5. After verifying the 'password', it will display "Are You Sure? Enter: Yes Esc: No". Press Enter (↵) to confirm or Esc (x) to cancel.

6. The, the RAID System will begin processing the preferred RAID Mode and display "Waiting System Re-initialize…". Once completed, the RAUD System is ready for usage under the chosen RAID Mode!

With RAID MASTER Operation

The RAID MASTER is a newly-designed GUI Software for our 4-bay SMART RAID System. The drivers of the RAID MASTER for both PC and MAC ate provided via CD or our website. It provides a more convenient yet modern way to manage your RAID System.
Please follow the steps listed in the instructions provided below:
1. If using the installation CD, please copy the driver for MAC or PC to your desktop. Double click the driver to decompress. Then, open the folder stating “RAID MASTER_vx.xx.xx”.
2. Once opened: For MAC, please double click on the “RAID MASTER” to open the program. For PC, please double click on the icon stating “Setup.exe” to begin set up.
3. Once the installation is completed, the RAID MASTER Menu page should appear.



Basic Mode Menu

1. **RAID and Disk Information:** Provides the basic information for the RAID System itself once the RAID System is connected to the host. For example, the Controller information, serial number for each inserted HDDs, what kind of RAID format is assigned for each inserted HDDs, and much more.

2. **Event Log:** Records all process completed for the RAID System and can be saved to a text format file.

3. **Basic RAID Configuration:**
• Provides the basic RAID Mode setup and configuration.
• Give a place to insert and apply a password to protect any changes done on the RAID System.
• Shows what type of RAID Mode is setup at the moment for the inserted HDDs.

Advance Mode Menu

1. **Email Notification & Event Settings:** Available Email Notification (such as events of errors, alert, and change of the RAID System) and Event Settings based on preference.

2. **Advanced RAID Configuration:** Similar to Basic RAID configuration with additional options.
• Select which HDDs and their storage capacities.
• Perform a combination of RAID Modes at same time. For example, creating two sets of RAID 1 or have a combination set of RAID 0 and RAID 1.
• Assign an additional HDD as the Spare to perform Automatic Rebuild when one of the HDD already in a RAID Mode setup fails (for RAID 1, CLONE, and RAID 5 only.)

3. **Firmware Information:** Provides Controller's firmware information such as product name, firmware version, manufacturer, and flash number. Also, gives and option to update the firmware when necessary.

4. **RAID Settings:** Allow set up of RAID Standby Timer Settings and RAID Rebuild Priority Settings based on preference.

For more information about the RAID Master operation, please go to the user manual in the provided CD.

Number of Disks Supporting Each RAID Mode

RAID Modes	Number of Disk in RAID
RAID 0 (Striping)	2 to 4
RAID 1 (Mirroring)	2
Span	2 to 4
Clone	2 to 4
RAID 5	3 or 4
RAID 1+0	4
JBOD	1 to 4

LED Indicator

Power LED x 1

Indicators	Color
Power on	Green
Power off	None

RAID Alert LED x 1

Indicators	Color
Healthy	None
Rebuild	Blink Red
Broken	Red
Degrade	Red
Fan Error	Red

HDD LED x 8

Indicator		HDD (1, 2, 3, 4)		RAID Mode
		Left (Connection/Acess)	Right (Health)	
Disk not detected		None	None	All Modes
Disk detected		White	None	All Modes
Disk not healthy		White	Red	All Modes
Data access		Flash White	None	All Modes
Disk Rebuild	**Source HDD**	Flash White	None	RID 1, RAID 5, RAID 1+0, Clone
	Target HDD	Flash White	Red Blink	
	RAID Alert	Blink Red		